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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/544,000	04/06/2000	David A. Cathey	3976US (98-0063)	7982		
7590 03/21/2006			EXAMINER			
James R Duzan			ABDULSELAM, ABBAS I			
Trask Britt & Rossa						
PO Box 2550		ART UNIT	PAPER NUMBER			
Salt Lake City,	UT 84110	2629				

DATE MAILED: 03/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<del></del>		Application	on No.	Applicant(s)				
Office Action Summary		09/544,00	00	CATHEY, DAVID A.				
		Examiner		Art Unit				
			bdulselam	2677				
Period fo	The MAILING DATE of this communication or Reply	appears on the	cover sheet with	the correspondence a	ddress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CFI SIX (6) MONTHS from the mailing date of this communication of period for reply is specified above, the maximum statutory pere to reply within the set or extended period for reply will, by streply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	G DATE OF TH R 1.136(a). In no event in the control of the control	HIS COMMUNICA: ent, however, may a reply Ill expire SIX (6) MONTHS lication to become ABANI	TION.  be timely filed  from the mailing date of this DONED (35 U.S.C. § 133).	•			
Status								
1) 又	Responsive to communication(s) filed on 1	2 December 2	005.					
		This action is n						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🖂	Claim(s) <u>1,2,5,8,9,19 and 22</u> is/are pending	g in the applica	tion.					
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)🖂	☐ Claim(s) 19 and 22 is/are allowed.							
6)⊠	☑ Claim(s) <u>1,2,5,8 and 9</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)	Claim(s) are subject to restriction an	nd/or election re	equirement.					
Applicati	on Papers							
9)	The specification is objected to by the Exam	niner.						
•	The drawing(s) filed on is/are: a)		objected to by	the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the cor	rrection is require	ed if the drawing(s)	is objected to. See 37 C	CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim for fore ☐ All b)☐ Some * c)☐ None of:		_	19(a)-(d) or (f).				
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
	oc the attached detailed Office action for a	nat of the oolt	Tod copies not rec	561 <b>76</b> 0.				
Attachmen	t(s)							
	e of References Cited (PTO-892)		4) Interview Sum	mary (PTO-413)				
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)		Paper No(s)/M	lail Date	TO 450)			
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB r No(s)/Mail Date	3/08)	5) Notice of Information (6) Other:	mal Patent Application (PT	U-152)			

## **DETAILED ACTION**

1. This office action is in response to a communication filed on 12/12/05. Claims 1-2, 5, 8-9, 19 and 22 are pending. Claims 3-4, 6-7, 10-18, 20-21 and 23-24 are canceled.

## Response to Arguments

2. Applicant's arguments with respect to claims 1-2, 5, 8-9, 19 and 22 have been considered but are most in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2 and 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dreher (USPN 4551717) in view of Inobe et al. (USPN 4882581) and Park et al. (USPN 6211862).

In regard to claims 1 and 8-9, Dreher discloses a computer keyboard comprising: an enclosure member; plurality of depressible key switch (10) devices arrayed above said printed circuit board (co1.2, lines 60-65); a key cap (11) mounted atop each switch device of plurality, each key cap having at least one identifying graphic symbol (20) (Fig. 3, col. 3, lines 2-3) formed on an upper surface thereof (see Figs 1-3) and luminescent material embedded within each key

cap (11) (col. 1, lines 47-50). Further, Dreher teaches a key (10) for use on a terminal with a key

cap top has a luminescent material (14) (LED) embedded with the key cap (11). However,

Dreher does not teach a key cap with respect to a first material having no electrical connection

thereto including one of a black material and a dark-colored non-luminescent material. Dreher

also does not teach a second luminescent material different than the first material forming the

identifying graphic symbol, the second luminescent material embedded within each key cap

substantially throughout.

Inobe on the other hand teaches a keyboard structure in which a keyboard luminates for a certain duration after it has been irradiated with a light source for a while, thereby allowing the user to perform a key entry in the dark while viewing the display panel. Inobe teaches as shown in Fig. 5 a key mat fitting structure in which in order to display the name of keys 22, a key mat

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Dreher's key display system to adapt Inobe's keys (22) as configured with key mat (26) shown in Fig. 5 because the use of key mat helps function a keyboard in dark environments as taught by Inobe.

26 made of a sheet magnetic material is laid, with labels 27 being printed on the mat surface.

Dreher does not teach a keyboard with a chemical source of electrical power. Park on the other hand teaches a rechargeable battery (34) of a keyboard (30) as shown in Fig. 6.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Dreher's keyboard base or keyboard circuit shown in Fig. 2 to adapt Park's

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rechargeable battery (34) as a power source because the use of the rechargeable battery (34) enables a keyboard communicate wirelessly as taught by Park.

As to claim 2, Dreher teaches keys for keyboards (col. 1, lines 5-7) and all features are well known in the art.

4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dreher in view of Inobe et al, Park et al. and Takami (US Pat. No. 4,205,522).

In regard to claim 5, Dreher in view of Inobe et al. and Park et al has been discussed above. In addition, Dreher discloses computer keyboard comprising: an enclosure member with printed circuit board (Fig. 1), a plurality of depressible key switch devices arrayed above said printed circuit board (col.2, lines 60-65); a key cap (11) mounted atop each switch device of plurality, each key cap having at least one identifying graphic symbol (20) (Fig. 3, col. 3, lines 2-3) formed on an upper surface thereof (see Figs 1-3) and luminescent material embedded within each key cap.

Dreher does not teach a "luminescent material including tritium" within at least one symbol of key cap.

However, Takami discloses an LCD device, which includes a luminescent phosphor, the luminescent phosphor includes a tritium (see the abstract).

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Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to employ the tritium for illuminating the LCD display embedded in the key cap of Dreher because it will provide cheap natural back light source for displaying key designation and would readily understood by those skilled in the art that it would represent an alternative choice for a backlight, which advantageously does not require additional electrical power.

## Allowable Subject Matter

5. Claim 19 and 22 are allowed.

#### Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Abbas I. Abdulselam whose telephone number is (571) 272-7685.

The examiner can normally be reached on Monday through Friday from 9:00 A.M. to 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Richard Hjerpe can be reached on (571) 272-7691. The fax phone number for the

organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Abbas abdulselam

Examiner

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March 17, 2006

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